

# Questions & Answers

Revit® Structure software uses a single intelligent model to coordinate all the tasks structural engineers and drafters need to complete during the building design process—from preliminary and schematic design, to structural design and analysis, to final construction documentation.

Revit Structure includes many features to help you work more efficiently, improve accuracy and increase design flexibility.

With Revit Structure, production of structural documentation is dramatically accelerated: every drawing sheet, every 2D and 3D view, every detail, and every schedule is a direct presentation of information from the same underlying building database.

## Contents

- 1    **General Product Information** .....3
  - 1.1   What is the Revit platform? .....3
  - 1.2   What is Revit Structure 2008? .....3
  - 1.3   What is AutoCAD Revit Structure Suite 2008? .....3
  - 1.4   What is building information modeling, how does it apply to Revit Structure? .....4
  - 1.5   Are there any other industry-specific applications built on Revit? .....4
  - 1.6   Who will benefit from Revit Structure? .....4
  - 1.7   Does Revit Structure do steel detailing?.....4
  - 1.8   What are the advantages of modeling in Revit Structure instead of within the analysis programs? .....4
  - 1.9   Who builds the model in Revit Structure -- the engineers or drafters? .....4
- 2    **About Revit Structure** .....5
  - 2.1   What are the important features in Revit Structure?.....5
  - 2.2   What's new in Revit Structure 2008? .....5
  - 2.3   What are the benefits of keeping Revit Structure on subscription? .....6



2.4	Can I use Revit Structure just for drafting? .....	6
2.5	How does Revit Structure handle concurrent users on the same project? .....	6
2.6	How does Revit Structure support finite element analysis and building code design?.....	6
2.7	What types of structural elements are supported out of the box? .....	6
2.8	What types of structural materials does Revit Structure support? .....	7
3	Interoperability.....	7
3.1	How does Revit Structure work with AutoCAD or other 2D software?.....	7
3.2	How does Revit Structure work with AutoCAD Architecture? .....	7
3.3	How does Revit Structure work with Revit Architecture? .....	7
3.4	How does Revit Structure work with AutoCAD MEP?.....	7
3.5	How does Revit Structure work with Revit MEP?.....	8
3.6	What about data compatibility between MicroStation and Revit Structure? .....	8
3.7	How do I use Autodesk Buzzsaw with Revit Structure? .....	8
3.8	Can I use Autodesk Design Review markup functionality with Revit Structure? .....	8
3.9	Is there an application programming interface (API) or are there other third-party development tools for Revit Structure? .....	8
	ACE-Hellas .....	8
	ADAPT .....	8
	Bentley RAM International.....	8
	CSC (UK) Ltd.....	9
	Graitec .....	9
	MIDAS Information Technology .....	9
	RISA Technologies.....	9
	Robobat.....	9
4	Parametric Modeling .....	9
4.1	What is parametric and how does the parametric change engine keep everything updated when I make changes? Why is the concept important? .....	9
4.2	How do I get sections or schedules from the model? What if I want to work in the section? .....	9
5	Licensing Revit Structure .....	10
5.1	Can I use the product in trial mode or demonstration mode?.....	10

<b>5.2 Does Revit Structure use the Network Installation Wizard like AutoCAD–based products for network deployment? .....</b>	<b>10</b>
<b>5.3 What should I do if I need help in installing the FLEXlm® license server or getting my single-user copy authorized?.....</b>	<b>10</b>
<b>5.4 Will the License Borrow feature introduced for the network version of AutoCAD software–based products work with Revit Structure? .....</b>	<b>10</b>
<b>6 Consulting, Training, and Support.....</b>	<b>10</b>
<b>6.1 What consulting services are available for Revit Structure? .....</b>	<b>10</b>
<b>6.2 Where can I find training courses for Revit Structure? .....</b>	<b>10</b>
<b>6.3 How can I get technical support information?.....</b>	<b>11</b>

## 1 General Product Information

### 1.1 What is the Revit platform?

Revit® software is Autodesk's platform for building information modeling. Applications such as Revit® Structure built on the Revit platform are complete, discipline-specific building design and documentation systems, supporting all phases of design and construction documentation. From preliminary design through the most detailed construction drawings and schedules, applications built on Revit help provide immediate competitive advantage, better coordination and accuracy, and can contribute to higher profitability for structural engineering firms and the rest of the building team.

At the heart of the Revit platform is the Revit parametric change engine, which automatically coordinates changes made anywhere—in model views or drawing sheets, schedules, sections, plans...you name it.

### 1.2 What is Revit Structure 2008?

Revit Structure 2008 is a multi-material structural modeling and drafting software system that offers concurrent physical and analytical modeling for design, coordination, and documentation—and bidirectional linking to industry-leading analysis applications.

Revit Structure software integrates a physical model—for layout, coordination, and documentation—with an independently editable analytical model for multiple analyses. You can model from scratch or over 2D CAD files from the architect. Or, for even more powerful coordination, you can link directly to intelligent 3D architectural models from AutoCAD® Architecture or Revit® Architecture software products. Bidirectional linking to industry-leading analysis software means analysis results update your Revit Structure model accurately—while proven parametric change management technology coordinates those updates everywhere in your design and documentation. The bottom line: Integrated modeling increases efficiency, improves accuracy, and streamlines coordination with your design team.

### 1.3 What is AutoCAD Revit Structure Suite 2008?

AutoCAD® Revit® Structure Suite 2008 (formerly known as AutoCAD® Revit® Series—Structure) is a software bundle including Revit Structure 2008 and AutoCAD® 2008 software applications shipped on two separate DVDs, with a single serial number and a single activation code permitting use of both products on a non-concurrent basis.

With AutoCAD Revit Structure Suite 2008, users get the most powerful parametric structural modeler with Revit Structure, plus the most widely used drafting software in the industry with AutoCAD. This bundle enables users to adopt building information modeling at their own pace, while leveraging their investment in AutoCAD and migrating all their company standards and detail libraries to Revit Structure.

#### 1.4 What is building information modeling, how does it apply to Revit Structure?

Building information modeling is an innovative building design and documentation methodology that relies on the creation and collection of interrelated computable information about a building project so that reliable, coordinated, and internally consistent digital representations of the building are available for design decision making, production of high-quality construction documents, construction planning, and predicting performance in various ways.

The ability to keep this information up to date and accessible in an integrated digital environment gives engineers, architects, builders, and owners a clear overall vision of their projects and contributes to the ability to make better decisions faster—helping raise the quality and increase the profitability of projects.

Revit is Autodesk's platform for building information modeling. Applications such as Revit Structure (built on the Revit platform) are complete, discipline-specific structural engineering, design and documentation systems supporting all phases of structural modeling, analysis (with third-party software), and construction documentation.

For more information about building information modeling and Autodesk's strategy for the application of information technology to the building industry, see the white papers and other information at [www.autodesk.com/bim](http://www.autodesk.com/bim).

#### 1.5 Are there any other industry-specific applications built on Revit?

Yes. In addition to Revit Structure, the Revit Architecture software is a complete architectural design and documentation system supporting all phases of design and all the architectural drawings and schedules required for a building project. Revit® MEP is the application for mechanical, electrical, and plumbing (MEP) engineering built on the Revit platform.

#### 1.6 Who will benefit from Revit Structure?

Structural engineers, especially those who use multiple analysis software products, will find Revit Structure a terrific improvement over how they are working today, with better change management and coordination tools. Structural drafters benefit by speeding up the production of construction drawings by virtually eliminating tedious rework caused by design changes. Clients and construction teams will also benefit from sharing unambiguous 3D models.

#### 1.7 Does Revit Structure do steel detailing?

No, however Revit Structure can import and export CIS/2 files to be used by steel detailing applications. Structural engineers and drafters can create typical details in Revit Structure using detail components for construction documents.

#### 1.8 What are the advantages of modeling in Revit Structure instead of within the analysis programs?

Instead of learning multiple systems (research has shown that structural engineers use an average of three different analysis/design programs), Revit Structure can be used as a common structural modeling tool to link with the analysis software. This enables structural engineers to spend more time engineering and less time learning multiple modeling tools. Another advantage of Revit Structure is the engineering insight available during the modeling process. For example, unsupported structural elements, global and local instabilities, and framing anomalies are automatically detected by Revit Structure before sending the model to analysis software.

Revit Structure models can also be created externally using models from certain analysis programs. This enables the ability to create, view and use Revit Structure models of projects that have been started in the analysis program or projects that have already been constructed.

#### 1.9 Who builds the model in Revit Structure -- the engineers or drafters?

Revit Structure supports different ways of working. In one case, structural designers and drafters can create the model and engineers can complete the model with loads and load combinations, release conditions, and material properties before performing

analyses. In another case, structural engineers can build the physical model themselves, then continue the analysis process while the drafters complete the construction documents. Revit Structure simplifies the creation of structural drawings by automatically generating drawings and schedules directly from the physical model. This enables the drafters to focus on detail views, annotations, and other details required for construction.

#### 1.10 Does Revit Structure support sustainable design?

Yes, in conjunction with complementary performance analysis and design software and other Revit family BIM software, Revit Structure is an ideal platform for engineers to make sustainable design decisions.

## 2 About Revit Structure

### 2.1 What are the important features in Revit Structure?

- Use of multiple structural materials: steel, precast concrete, cast-in-place concrete, masonry, and wood; all within the same building model
- Full creation of required construction documentation
- State of the art analytical model created simultaneously and coordinated with the physical model
- Bidirectional links with multiple analysis programs
- Bidirectional associativity between the model, views, drawing sheets, details, and schedules
- Multiple design options can be maintained within the same model
- Multiple users can work on the model simultaneously
- Import and export DWG™, DXF™, DGN, IFC, SAT and CIS/2 files
- Export and import 3D intelligent building objects for structural elements native to AutoCAD Architecture and AutoCAD MEP products
- Full interoperability with Revit Architecture (from interference checking to coordination monitoring) and Revit MEP
- Smart relationships between structural members which adjust when conditions between structural elements are modified (for example: if a column is moved, the beams framing into that column will adjust automatically)
- Templates to generate specific structural families using the family editor

Download the detailed brochure for Revit Structure at [www.autodesk.com/structure](http://www.autodesk.com/structure)

### 2.2 What's new in Revit Structure 2008?

Revit Structure 2008 is compatible with Revit Architecture 2008, the latest Revit-based architectural design and documentation system, as well as Revit MEP 2008 for mechanical/electrical/plumbing systems engineering. New features include tools for improved modeling and documentation (such as curved beams and openings in beams and columns) plus the creation of parametric trusses and sloped concrete slabs. Also, new productivity and interoperability tools are available for subscription customers.

Download the complete feature list for Revit Structure at [www.autodesk.com/structure](http://www.autodesk.com/structure)

### 2.3 What are the benefits of keeping Revit Structure on subscription?

Autodesk® Subscription is the best way to keep your design tools and learning up-to-date. For an annual fee you get the latest versions of your licensed Autodesk software, self-paced training options, and a broad range of other technology and business benefits. Revit Structure subscription customers have access to regularly updated content produced specifically for structural analysis and design.

Autodesk Subscription includes direct web support. You get one-to-one online communication with Autodesk support technicians for fast, complete answers to your installation, configuration, and troubleshooting questions. Web and email communications deliver support straight to your desktop. Plus you have web access to your account, so you can track and manage questions and responses.

Additionally, Autodesk Subscription includes Subscription Modules (such as DWG Compare), access to Autodesk University (AU) conference materials, and home use licensing options.

### 2.4 Can I use Revit Structure just for drafting?

You can work entirely in Revit Structure to generate your construction documentation. AutoCAD software is not required. Revit Structure includes all necessary drafting tools such as dimensions, annotations, symbols, detail components, detail lines, revision tools, etc., to complete drawings and structural details, as well as schedules. You can also reuse existing typical details from AutoCAD via the DWG import. All construction documents created in Revit Structure can be exported to DWG format for other consultants to use.

### 2.5 How does Revit Structure handle concurrent users on the same project?

Revit Worksharing distributes the power of the Revit parametric building modeler across the structural engineering team. Worksharing provides a complete range of collaboration modes: from on-the-fly simultaneous access to the shared model, through the formal division of the project into defined systems, to complete separation of discrete project parts (such as wings or separate buildings) into individually managed linked models. Worksharing enables structural team members to choose the best way to collaborate and interact based on workflow and project requirements. For example, after enabling worksharing on a structural model, while the structural engineer is performing structural analysis and design in another application, the structural drafter can simultaneously prepare all the model views, drawings, details, and schedules for documentation. When the drafter loads the latest file saved by the engineer, all design changes made to the model by the engineer will automatically update the corresponding information into the drafter's work.

### 2.6 How does Revit Structure support finite element analysis and building code design?

Revit Structure integrates with several popular third-party analysis applications through the Revit Application Programming Interface (API).

See [www.autodesk.com/structure](http://www.autodesk.com/structure) for up-to-date information on Revit Structure partner products or contact your local authorized Autodesk channel partner.

Users can also link their in-house spreadsheets or in-house analysis and design software through the API.

### 2.7 What types of structural elements are supported out of the box?

Libraries of all standard walls, columns, foundations, beams, floor systems, braces, trusses, and open web joists are provided. Special foundations, precast concrete elements, and other useful structural libraries such as castellated beams, steel connections, stiffeners, concrete rebars, etc., are also supported. Structural boundary conditions, load cases and load types are included and can be exported to analysis and design software along with the other structural elements.

## 2.8 What types of structural materials does Revit Structure support?

Revit Structure supports steel, precast concrete, cast-in-place concrete, wood, and masonry.

# 3 Interoperability

## 3.1 How does Revit Structure work with AutoCAD or other 2D software?

Revit Structure provides industry-leading DWG compatibility for data import and export.

Revit Structure can produce DWG deliverables just as AutoCAD software can. It supports the process most engineering firms use with their clients by producing consistent and layered DWG files using user-defined layering standards. With Revit Structure nothing in an exported DWG file ends up on the wrong layer, easing client interactions and helping speed the design and construction process.

Revit Structure allows imported or linked DWG files from your clients or consultants to be used for coordination as reference geometry or as the starting point for a new design. Any CAD system that supports the DWG or DXF file format can work effectively with Revit Structure.

## 3.2 How does Revit Structure work with AutoCAD Architecture?

In addition to the 2D DWG import/export, Revit Structure can import 3D models from AutoCAD Architecture as a basis for the structural model or to compare to the structural model. Also for coordination purposes, Revit Structure 2008 exports 3D structural models to AutoCAD Architecture 2008 where structural objects are recognized as native AutoCAD Architecture objects. Structural components in Revit Structure which are not of a type supported in AutoCAD Architecture (foundations and walls with structural characteristics) are exported to AutoCAD Architecture as mass elements.

So whether it's a 2D view, a drawing, or a model, any project information can be shared between an engineer using Revit Structure and an architect using AutoCAD Architecture 2008.

## 3.3 How does Revit Structure work with Revit Architecture?

Revit Structure is built on the same Revit technology platform as Revit Architecture. If both the structural engineer and the architect are using Revit-based applications but are in separate organizations they can exchange and cross-link RVT files so both have access to the information from the other discipline as they work. Working on the same Revit platform allows engineers and architects to perform interference check between structural and architectural elements. It also offers automatic coordination monitor tools so that each discipline can get electronic notifications each time the other makes a change on levels, grids, columns, walls, floors, and/or openings.

## 3.4 How does Revit Structure work with AutoCAD MEP?

Revit Structure can import ACIS® geometry and building objects generated by AutoCAD MEP, allowing structural engineers to view the geometry of the building environmental systems within the structural model. Revit Structure 2008 can also export structural members as intelligent building objects native to AutoCAD MEP 2008, as described above in question 3.2. When exported, these can be used directly in AutoCAD MEP 2008 for clash-detection between the structural elements and the building environmental systems.

### 3.5 How does Revit Structure work with Revit MEP?

Structural engineers who are working with MEP engineers using Revit MEP can take full advantage of building information modeling to share the same underlying building database. Similar to the coordination between Revit Structure and Revit Architecture, interference checking is available in all Revit-based applications for better coordination. For instance, structural engineers can check for interferences between ductwork and structural elements, as well as gaining a better overall understanding of the entire structure by linking the Revit models together.

### 3.6 What about data compatibility between MicroStation and Revit Structure?

Revit Structure provides interoperability capabilities for MicroStation® software users. First, Revit Structure can import, export, and link DGN (V7) format files. You can draw on imported files to create Revit Structure parametric model geometry. Revit Structure can manage imported files so that detail libraries in DGN file format can be placed onto Revit Structure drawing sheets.

Further, Revit Structure can map a specific DGN level number and color when exporting a view or a drawing. So nothing in the exported DGN file ends up on the wrong level, easing client/consultant interactions and speeding the design process.

### 3.7 How do I use Autodesk Buzzsaw with Revit Structure?

The Autodesk® Buzzsaw® online collaboration service is independent of the software used for building structure design and documentation. Revit Structure streamlines the process of uploading exported files from your project directly to predefined Buzzsaw project locations. The project can be setup to automatically save the project to either DWG or DWF™ file format. Model files (RVT files) can be posted to Buzzsaw for sharing with the project team just like any other file. A read-only copy of Autodesk Revit enables users to print and export models that have not been edited, serving as a robust viewer and file translator for team members who receive Revit models but who are not using the software themselves. Because Revit also publishes directly to other industry-standard file formats, team members can share sets of deliverables on Autodesk Buzzsaw in this way as well.

### 3.8 Can I use Autodesk Design Review markup functionality with Revit Structure?

Yes, Revit Structure supports round-trip export and import of DWF markups for an all-digital review, markup, and editing process.

### 3.9 Is there an application programming interface (API) or are there other third-party development tools for Revit Structure?

Yes. Revit Structure ships with a structural API development toolkit. Subscription customers benefit from productivity (e.g., rebar macros) and interoperability (e.g., CIS/2 file import) tools developed using the Revit Structure API.

Software partners who have linked their applications to Revit Structure using the API include the following:

#### ACE-Hellas

ACE-Hellas is the developer of Scada Pro, software for static and dynamic analysis for buildings. Find out more at [www.ace-hellas.gr](http://www.ace-hellas.gr)

#### ADAPT

ADAPT is the developer of ADAPT-Builder Platform - a comprehensive suite of integrated design software for concrete floor systems, beams, frames, mat, and slab-on-grade foundations (reinforced or post-tensioned). Find out more at [www.adaptsoft.com](http://www.adaptsoft.com)

#### Bentley RAM International

RAM International is the developer of RAM Structural System - building analysis and design software. Find out more at [www.ramint.com/support/downloads\\_revit](http://www.ramint.com/support/downloads_revit)



### CSC (UK) Ltd.

CSC is the developer of Fastrak Building Designer – a comprehensive steel building design package and Orion for concrete analysis and design. Find out more at [www.cscworld.com](http://www.cscworld.com)

### Graitec

Graitec is the developer of Arche, software for structural analysis and design, and Advanse – Steel, software for steel construction. Find out more at [www.graitec.com](http://www.graitec.com)

### MIDAS Information Technology

MIDAS is the developer of MIDAS/Gen – an integrated design system for building and general structures. Find out more at [www.midasuser.com](http://www.midasuser.com)

### RISA Technologies

RISA Technologies is the developer of RISA-3D – general purpose analysis and design software and other design tools such as RISAFloor – for building design and analysis. Find out more at [www.risatech.com](http://www.risatech.com)

### Robobat

Robobat is the developer of ROBOT Millennium software for structural analysis and design. Find out more at [www.revit.robobat.com](http://www.revit.robobat.com)

For up-to-date information on third-party analysis software partners, visit the Revit Structure page at [www.autodesk.com/structure](http://www.autodesk.com/structure) or contact your local authorized Autodesk channel partner.

## 4 Parametric Modeling

4.1 What is parametric and how does the parametric change engine keep everything updated when I make changes? Why is the concept important?

The term “parametric” in this context refers to the relationships among and between all elements of the model that enable the coordination and change management that Revit Structure provides. These relationships are created either automatically by the software or deliberately by the user as the user works.

A fundamental characteristic of a building information modeling application is the ability to coordinate changes and maintain consistency at all times. The user does not have to intervene to update drawings or links.

At the heart of Revit Structure is technology that is new to structural design, engineering, and documentation systems: a parametric change engine. Revit Structure is built from the ground up using this technology. The Revit parametric change engine uses the information captured as you work to build a network of relationships between elements. When you change something, Revit Structure immediately applies that change to any related elements.

This concept is important because it is this capability that delivers the fundamental coordination and productivity benefits of Revit Structure: change anything at any time anywhere in the project and Revit Structure coordinates that change through the entire project. This change management is also one of the fundamental characteristics of a building information modeling solution.

4.2 How do I get sections or schedules from the model? What if I want to work in the section?

In Revit Structure a section or a schedule is just another live view of the model and presents itself instantly when you create it. The section view will automatically update if the defining section line is moved. You can work (add or edit components) in the section view without restrictions.

The beauty of Revit Structure is that you work in the view that makes sense for your project. You can make your changes in section, elevation, or the schedule and Revit Structure propagates the changes throughout the model.

Schedules are created using the same principle. They are simply another type of view. So they are also live and update dynamically as you change the model. In fact, you can change things in the schedule and Revit Structure updates the model and drawings.

## 5 Licensing Revit Structure

### 5.1 Can I use the product in trial mode or demonstration mode?

You can use the software in trial mode for a 30-day trial period without an activation code. You can also use the product in demonstration mode, which enables all features except save, plot, and export.

### 5.2 Does Revit Structure use the Network Installation Wizard like AutoCAD-based products for network deployment?

No, Revit Structure uses a different network installation technology and process from the AutoCAD-based products. The Network Installation wizard is designed to work only with AutoCAD software-based products.

### 5.3 What should I do if I need help in installing the FLEXlm® license server or getting my single-user copy authorized?

As with all other products, contact your reseller first for help with installation and licensing issues. Resellers can then escalate issues that cannot be easily resolved to Autodesk Revit Client Services. Subscription members can email Autodesk directly with installation support questions.

### 5.4 Will the License Borrow feature introduced for the network version of AutoCAD software-based products work with Revit Structure?

Yes, network users of Revit Structure can use the License Borrow feature for laptop users.

## 6 Consulting, Training, and Support

### 6.1 What consulting services are available for Revit Structure?

Check with your local Autodesk Authorized Reseller for consulting services that they offer.

Autodesk Consulting also provides consulting offerings for project assessments, process audits, and a range of Revit Structure implementation services. Custom consulting offerings are also available to meet your specific needs. For more information on Autodesk Consulting, contact your local Autodesk Authorized Reseller or Autodesk Account Executive, or visit [www.autodesk.com/consulting](http://www.autodesk.com/consulting).

### 6.2 Where can I find training courses for Revit Structure?

Training courses are available from Autodesk Authorized Resellers, Autodesk Consulting, and Autodesk® Authorized Training Center (ATC®) sites. Check with your local Autodesk Authorized Reseller for a schedule of training classes.

You can enroll in instructor-led training at Autodesk Authorized Training Centers around the world. These training centers use Autodesk Official Training Courseware (AOTC) to deliver comprehensive courses for new and intermediate Revit users. To learn more, visit [www.autodesk.com/atc](http://www.autodesk.com/atc).

Training courses through Autodesk Consulting include Autodesk Classroom Training (onsite or at Autodesk), Autodesk Revit Distance Learning Seminars (online or instructor-led), or custom training to match your specific needs. For more information, or to register for a course, go to [www.autodesk.com/revit-training](http://www.autodesk.com/revit-training).

For more information about Autodesk's training services for Revit Structure, send an email to [RevitEducation@autodesk.com](mailto:RevitEducation@autodesk.com).

### 6.3 How can I get technical support information?

Technical support information is available from several sources. First, Autodesk Authorized Resellers offer technical support information to their customers. Second, you may locate the answers to frequently asked technical questions in the support knowledge base on [www.autodesk.com/revit-support](http://www.autodesk.com/revit-support). Third, you can ask questions and read information about the use of Autodesk products in the peer-to-peer discussion groups on [www.autodesk.com/discussion](http://www.autodesk.com/discussion).

Autodesk Subscription members receive personalized web support from Autodesk technical experts. For complete information, visit [www.autodesk.com/subscription](http://www.autodesk.com/subscription) or contact your Autodesk Authorized Reseller.

Autodesk Authorized Resellers also provide telephone support services for Autodesk Revit Structure, and all other Autodesk products. In the United States and Canada, call 800-964-6432 to locate a reseller near you, or visit [www.autodesk.com/reseller](http://www.autodesk.com/reseller).

Find a complete list of support options on the Autodesk website at [www.autodesk.com/revit-support](http://www.autodesk.com/revit-support).

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